



Department
of Health



Cornell **CALS**
College of Agriculture and Life Sciences

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New York Integrated Food Safety Center of Excellence (NY CoE) Epi Trainings Toolkit *Resources for epi/EH staff who investigate enteric disease clusters*

Molecular Epidemiology and Sequencing Approaches in Public Health

<https://nyfoodsafety.cals.cornell.edu/molecular-epidemiology/>

These online molecular epidemiology trainings were developed through a collaboration with the CDC and the CDC Integrated Food Safety CoEs. This project is a multi-pronged approach to deliver training on whole genome sequencing (WGS) to health department and agriculture department staff who use WGS data for foodborne disease surveillance and outbreak investigations. The training includes four online [modules](#) that provide foundational knowledge on WGS, and four [webinars](#) on basic genomic principles.

Whole Genome Sequencing for Laboratorians and Epidemiologists Live Learning Series

<https://nyfoodsafety.cals.cornell.edu/training/whole-genome-sequencing-laboratorians-and-epidemiologists-live-learning-series/>

The Whole Genome Sequencing for Laboratorians and Epidemiologists Live Learning Series is targeted towards laboratorian-epidemiologist teams (from the NY and CO CoE regions) with a focus on WGS workflow, basics on BioNumerics resources and use of case studies to illustrate pathogen thresholds, cluster identification and resource prioritization.

Interviewer Training Resources

- **Interviewer Orientation Packet** utilized at the NYSDOH for student interview teams; if interested in receiving a copy, please contact the NY CoE
- **Outbreak (*Interviewing Skills*) response training**
<https://coloradosph.cuanschutz.edu/research-and-practice/centers-programs/foodsafety/trainings/student-outbreak-response-training>
*review of PowerPoint slides (for sections of interest) may be useful
This course, designed by the Colorado Food Safety Center of Excellence (and adapted by the NY CoE), introduces participants to foodborne disease outbreak investigations and provides training on effective interview techniques.

SEDRIC Live Learning Series

<https://dcipher.cdc.gov/workspace/compass/view/ri.compass.main.folder.b70215da-90fe-4f3a-9700-95d69143eb9d>

NY CoE-hosted webinars highlighting how to use SEDRIC and allele codes for surveillance, cluster detection, and cluster management, including presentations from the Maine and Delaware Departments of Health and Human Services. Accessible via SEDRIC only.

wgMLST Student Activity

<https://nyfoodsafety.cals.cornell.edu/training/wgmlst-activity/>

NY CoE developed this activity to provide public health staff and students of public health with an understanding of how whole genome sequencing and whole genome multi locus sequence typing functions as a subtyping model.

Pining for a Common Source, a Foodborne Illness Outbreak Investigation: Table Top Exercise

<https://foodsafetycoe.org/product/2211/>

This NY CoE case study was adapted from an actual Salmonella investigation in NYS, heralding a multistate outbreak associated with a novel vehicle. The case study is designed to be completed as a self-paced individual activity or as a moderated small group table top exercise.

Checklists to Initiate Student Interview Teams at State/Jurisdictional Health Departments

<https://foodsafetycoe.org/product/2466/>

Implementing Student Interview Teams webinar <https://foodsafetycoe.org/product/3159/>

NY CoE developed these resources to advise State/jurisdictional health departments on processes to implement student interview teams (remote or in-person) at their agency. A Student/Intern Logistics Checklist highlighting planning, logistical, budget and infrastructure considerations at the agency-level is supplemented by a Student Team Orientation Checklist which highlights activities/tools to develop fundamental interviewing skills.

Epi-Ready Team Training: Foodborne Illness Response Strategies

<https://nyfoodsafety.cals.cornell.edu/training/epi-ready-training/>

Contact the NY CoE for additional details.

Recorded Webinars

- **Interviewing Food Workers During an Outbreak Investigation**
<https://www.youtube.com/watch?v=dXogi737jXM&t=287s>
- **Using the NCBI Pathogen Detection Pipeline as part of the Epi Work Flow**
<https://vimeo.com/657580470/de0cf5786a>
- **Using the NCBI Pathogen Detection Portal to Aid in Surveillance of Enteric Pathogens Webinar** <https://www.aphl.org/conferences/proceedings/Documents/2017/NLTC-9/NCBI%20Pathogen%20Browser-20180307.mp4>
- **The Use of Whole Genome Sequencing During Foodborne Outbreak Investigations**
<https://meetny.webex.com/meetny/ldr.php?RCID=da973a692754a8b3bf60587cfe9b4988>
- **Using Epi Info Templates to Build Questionnaires**
<https://meetny.webex.com/recordingsservice/sites/meetny/recording/82ebfdf5e244412aba50df66fa23bafb/playback>

For a full listing of NY CoE resources, access the NY CoE website at:

<https://nyfoodsafety.cals.cornell.edu/about>

To contact the NY CoE for assistance, send an email to:

paula.pennell-huth@health.ny.gov

All-CoE products and trainings available at:

<https://foodsafetycoe.org/>